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\*\*\* YOU HAVE NEW MAIL \*\*\*

=> s mass spectromet?  
L1 308916 MASS SPECTROMET?

=> s l1 and mass tag?  
L2 156 L1 AND MASS TAG?

=> s l2 and librar?  
L3 40 L2 AND LIBRAR?

=> s l3 and monomethoxytrityl?  
L4 2 L3 AND MONOMETHOXYTRITYL?

=> d l4 bib abs 1-2

L4 ANSWER 1 OF 2 USPATFULL  
AN 2002:63679 USPATFULL  
TI Compositions and methods for enhancing hybridization and priming  
specificity  
IN Van Ness, Jeffrey, Seattle, WA, United States  
Tabone, John C., Bothell, WA, United States  
Garrison, Lori K., Seattle, WA, United States  
PA QIAGEN Genomics, Inc., Bothell, WA, United States (U.S. corporation)  
PI US 6361940 B1 20020326  
AI US 1998-53831 19980401 (9)  
RLI Continuation-in-part of Ser. No. US 1997-2051, filed on 31 Dec 1997, now  
abandoned Continuation-in-part of Ser. No. US 1997-933924, filed on 23  
Sep 1997, now abandoned  
PRAI US 1996-26621P 19960924 (60)  
DT Utility  
FS GRANTED  
EXNAM Primary Examiner: Riley, Jezia  
LREP Seed Intellectual Property Law Group PLLC  
CLMN Number of Claims: 97  
ECL Exemplary Claim: 1  
DRWN 33 Drawing Figure(s); 30 Drawing Page(s)  
LN.CNT 6301  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions and methods are provided for increasing the specificity of a probe nucleic acid for a target nucleic acid in a hybridization solution. An abasic residue, deoxyNebularine residue, or a hybotrope is used to increase specificity. A method is provided for identifying useful hybotropes, including salts, water miscible organic solvents, aprotic solvents and organic solvents, on the basis of enthalpy considerations. Hybotropic hybridization and modified oligonucleotides may be used in amplification reactions, such as PCR, sequence analysis methods, and genomic screening methods.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 2 OF 2 USPATFULL

AN 2002:43173 USPATFULL

TI Methods for preparing conjugates

IN Dellinger, Douglas J., Sunnyvale, CA, UNITED STATES

Myerson, Joel, Berkeley, CA, UNITED STATES

Fulcrand, Geraldine, Sunnyvale, CA, UNITED STATES

Ilsley, Diane D., San Jose, CA, UNITED STATES

PI US 2002025539 A1 20020228

AI US 2001-981580 A1 20011017 (9)

RLI Division of Ser. No. US 1999-397526, filed on 16 Sep 1999, PENDING

DT Utility

FS APPLICATION

LREP AGILENT TECHNOLOGIES, INC., Legal Department, DL429, Intellectual

Property Administration, P. O. Box 7599, Loveland, CO, 80537-0599

CLMN Number of Claims: 45

ECL Exemplary Claim: 1

DRWN 2 Drawing Page(s)

LN.CNT 1750

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods are disclosed for conjugating one moiety to another moiety. In the method the moieties are reacted with one another in a protic solvent. Reaction between the moieties and the protic solvent during the conjugating is negligible or reversible. A stable bond is formed between the moieties to produce a product that is not subject to .beta.-elimination at elevated pH. Usually, one of the moieties comprises an unsaturation between two carbon atoms. One of the carbon atoms is or becomes an electrophile during the conjugating. The other of the moieties comprises a functionality reactive with the electrophile carbon atom to form a product that comprises the unsaturation. Compounds comprising both of the moieties as well as precursor molecules are also disclosed. Methods are also disclosed for determining an analyte in a sample employing compounds as described above.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s l1 and monomethoxytrityl?  
L6 80 L1 AND MONOMETHOXYTRITYL?

=> s l6 and tag  
L7 23 L6 AND TAG

=> s l7 not l4  
L8 21 L7 NOT L4

=> dup rem l8  
PROCESSING COMPLETED FOR L8  
L9 21 DUP REM L8 (0 DUPLICATES REMOVED)

=> d l9 bib abs 1-21

L9 ANSWER 1 OF 21 USPATFULL  
AN 2002:272783 USPATFULL  
TI Polynucleotide sequence assay  
IN Bi, Wanli, San Ramon, CA, UNITED STATES  
Livak, Kenneth J., San Jose, CA, UNITED STATES  
Bloch, Will, White Salmon, WA, UNITED STATES  
PI US 2002150904 A1 20021017  
AI US 2001-898323 A1 20010703 (9)  
PRAI US 2000-216514P 20000703 (60)  
DT Utility  
FS APPLICATION  
LREP PATTI SELAN, PATENT ADMINISTRATOR, APPLIED BIOSYSTEMS, 850 LINCOLN  
CENTRE DRIVE, FOSTER CITY, CA, 94404  
CLMN Number of Claims: 158  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 2135  
AB Disclosed are methods for detecting or quantifying one or more target  
polynucleotide sequences in a sample. In one aspect, a sample is  
contacted with first and second probe pair that are capable of  
hybridizing to a selected target sequence and a corresponding  
complementary sequence, respectively. Probe cleavage and ligation  
results in the formation of ligation products which can be generated in  
an exponential fashion when the target sequence and/or complement are  
present in the sample. In another embodiment, a single probe pair can be  
used to form ligation product in a linear fashion from a complementary  
template. Reagents and kits are also disclosed.

L9 ANSWER 2 OF 21 USPATFULL  
AN 2002:221317 USPATFULL  
TI Methods and compositions for determining the sequence of nucleic acid  
molecules  
IN Ness, Jeffrey Van, Seattle, WA, UNITED STATES  
Tabone, John C., Bothell, WA, UNITED STATES  
Howbert, J. Jeffry, Bellevue, WA, UNITED STATES  
Mulligan, John T., Seattle, WA, UNITED STATES  
PI US 2002119456 A1 20020829  
AI US 2001-855999 A1 20010514 (9)  
RLI Continuation of Ser. No. US 1997-898180, filed on 22 Jul 1997, PATENTED  
Continuation-in-part of Ser. No. US 1997-786835, filed on 22 Jan 1997,  
ABANDONED  
PRAI US 1996-10462P 19960123 (60)  
DT Utility  
FS APPLICATION  
LREP SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300,  
SEATTLE, WA, 98104-7092  
CLMN Number of Claims: 58

ECL Exemplary Claim: 1  
DRWN 25 Drawing Page(s)  
LN.CNT 6401

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods and compounds, including compositions therefrom, are provided for determining the sequence of nucleic acid molecules. The methods permit the determination of multiple nucleic acid sequences simultaneously. The compounds are used as tags to generate tagged nucleic acid fragments which are complementary to a selected target nucleic acid molecule. Each **tag** is correlative with a particular nucleotide and, in a preferred embodiment, is detectable by **mass spectrometry**. Following separation of the tagged fragments by sequential length, the tags are cleaved from the tagged fragments. In a preferred embodiment, the tags are detected by **mass spectrometry** and the sequence of the nucleic acid molecule is determined therefrom. The individual steps of the methods can be used in automated format, e.g., by the incorporation into systems.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 3 OF 21 USPATFULL  
AN 2002:108823 USPATFULL  
TI **Mass spectrometric** detection of polypeptides  
IN Little, Daniel, Boston, MA, United States  
Koster, Hubert, La Jolla, CA, United States  
Higgins, G. Scott, Paisley, UNITED KINGDOM  
Lough, David, Berwickshire, UNITED KINGDOM  
PA Sequenom, Inc., San Diego, CA, United States (U.S. corporation)  
PI US 6387628 B1 20020514  
AI US 2000-664977 20000918 (9)  
RLI Division of Ser. No. US 1998-146054, filed on 2 Sep 1998  
Continuation-in-part of Ser. No. US 1997-922201, filed on 2 Sep 1997  
DT Utility  
FS GRANTED  
EXNAM Primary Examiner: Campbell, Eggerton A.  
LREP Heller Ehrman White & McAuliffe  
CLMN Number of Claims: 38  
ECL Exemplary Claim: 1  
DRWN 3 Drawing Figure(s); 3 Drawing Page(s)  
LN.CNT 4716

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for determining the identity of a target polypeptide using mass spectroscopy is provided. Depending on the target polypeptide to be identified, a process as disclosed can be used, for example, to diagnose a genetic disease or chromosomal abnormality, a predisposition to a disease or condition, or infection by a pathogenic organism; or for determining identity or heredity. Kits for performing the disclosed processes also are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 4 OF 21 USPATFULL  
AN 2002:1324 USPATFULL  
TI Methods for the preparation of conjugated oligomers  
IN Manoharan, Muthiah, Carlsbad, CA, United States  
PA ISIS Pharmaceuticals, Inc., Carlsbad, CA, United States (U.S. corporation)  
PI US 6335437 B1 20020101  
AI US 1998-149156 19980907 (9)  
DT Utility  
FS GRANTED  
EXNAM Primary Examiner: Wilson, James O.; Assistant Examiner: Owens, Howard  
LREP Woodcock Washburn Kurtz Mackiewicz & Norris LLP

CLMN Number of Claims: 41  
ECL Exemplary Claim: 1  
DRWN 0 Drawing Figure(s); 0 Drawing Page(s)  
LN.CNT 1645

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel methods for preparing oligonucleotide conjugates using a novel electrophilic haloacetyl linker. Novel compounds and intermediates are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 5 OF 21 USPATFULL  
AN 2001:214828 USPATFULL  
TI **Mass spectrometric** detection of polypeptides  
IN Little, Daniel, Boston, MA, United States  
Koster, Hubert, La Jolla, CA, United States  
Higgins, G. Scott, Paisley, United Kingdom  
Lough, David, Berwickshire, United Kingdom  
PA Sequenom, Inc., San Diego, CA, United States (U.S. corporation)  
PI US 6322970 B1 20011127  
AI US 1998-146054 19980902 (9)  
RLI Continuation-in-part of Ser. No. US 1997-922201, filed on 2 Sep 1997  
DT Utility  
FS GRANTED  
EXNAM Primary Examiner: Campbell, Eggerton A.  
LREP Seidman, Stephanie L.Heller Ehrman White & McAuliffe LLP  
CLMN Number of Claims: 95  
ECL Exemplary Claim: 1  
DRWN 3 Drawing Figure(s); 3 Drawing Page(s)  
LN.CNT 4786

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for determining the identity of a target polypeptide using mass spectroscopy is provided. Depending on the target polypeptide to be identified, a process as disclosed can be used, for example, to diagnose a genetic disease or chromosomal abnormality, a predisposition to a disease or condition, or infection by a pathogenic organism; or for determining identity or heredity. Kits for performing the disclosed processes also are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 6 OF 21 USPATFULL  
AN 2001:202419 USPATFULL  
TI Polymerase extension at 3' terminus of PNA-DNA chimera  
IN Egholm, Michael, Wayland, MA, United States  
Chen, Caifu, Brookline, MA, United States  
PA Applera Corporation, Foster City, CA, United States (U.S. corporation)  
PI US 6316230 B1 20011113  
AI US 1999-373845 19990813 (9)  
DT Utility  
FS GRANTED  
EXNAM Primary Examiner: Riley, Jezia  
LREP Andrus, Alex  
CLMN Number of Claims: 43  
ECL Exemplary Claim: 1  
DRWN 20 Drawing Figure(s); 17 Drawing Page(s)  
LN.CNT 1634

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides methods and a kit for primer extension of PNA-DNA chimera from template nucleic acids using polymerases, nucleotide 5'-triphosphates, and primer extension reagents. Structural requirements of the chimera for primer extension include 5 to 15 contiguous PNA monomer units, 3 or more contiguous nucleotides, and a 3' hydroxyl terminus. The chimera and/or a nucleotide is labelled with fluorescent

dyes or other labels. The methods include DNA sequencing, DNA fragment analysis, reverse transcription, mini-sequencing, chromosome labelling, amplification, and single nucleotide polymorphism (SNP) detection.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 7 OF 21 USPATFULL  
AN 2001:196797 USPATFULL  
TI Methods and compositions for determining the sequence of nucleic acid molecules  
IN Van Ness, Jeffrey, Seattle, WA, United States  
Tabone, John C., Bothell, WA, United States  
Howbert, J. Jeffry, Bellevue, WA, United States  
Mulligan, John T., Seattle, WA, United States  
PA Qiagen Genomics, Inc., Bothell, WA, United States (U.S. corporation)  
PI US 6312893 B1 20011106  
AI US 1997-898180 19970722 (8)  
RLI Continuation-in-part of Ser. No. US 1997-786835, filed on 22 Jan 1997, now abandoned  
PRAI US 1996-10462P 19960123 (60)  
DT Utility  
FS GRANTED  
EXNAM Primary Examiner: Houtteman, Scott W.  
LREP Seed Intellectual Property Law Group PLLC  
CLMN Number of Claims: 58  
ECL Exemplary Claim: 1  
DRWN 46 Drawing Figure(s); 42 Drawing Page(s)  
LN.CNT 6431

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods and compounds, including compositions therefrom, are provided for determining the sequence of nucleic acid molecules. The methods permit the determination of multiple nucleic acid sequences simultaneously. The compounds are used as tags to generate tagged nucleic acid fragments which are complementary to a selected target nucleic acid molecule. Each **tag** is correlative with a particular nucleotide and, in a preferred embodiment, is detectable by **mass spectrometry**. Following separation of the tagged fragments by sequential length, the tags are cleaved from the tagged fragments. In a preferred embodiment, the tags are detected by **mass spectrometry** and the sequence of the nucleic acid molecule is determined therefrom. The individual steps of the methods can be used in automated format, e.g., by the incorporation into systems.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 8 OF 21 USPATFULL  
AN 2001:29748 USPATFULL  
TI Aminooxy-modified oligonucleotide synthetic intermediates  
IN Cook, Phillip Dan, Lake San Marcos, CA, United States  
Manoharan, Muthiah, Carlsbad, CA, United States  
Kawasaki, Andrew Mamoru, Oceanside, CA, United States  
PA ISIS Pharmaceuticals, Inc., Carlsbad, CA, United States (U.S. corporation)  
PI US 6194598 B1 20010227  
AI US 2000-477902 20000105 (9)  
RLI Division of Ser. No. US 1998-16520, filed on 30 Jan 1998  
PRAI US 1997-37143P 19970214 (60)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Gitomer, Ralph; Assistant Examiner: Crane, L. E.  
LREP Woodcock Washburn Kurtz Mackiewicz & Norris LLP  
CLMN Number of Claims: 6  
ECL Exemplary Claim: 1

DRWN 29 Drawing Figure(s); 29 Drawing Page(s)

LN.CNT 3095

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Nucleotide compositions containing aminooxy moieties are provided. In accordance with preferred embodiments, oligonucleotides and oligonucleotide analogs are provided which are specifically hybridizable with a selected sequence of RNA or DNA wherein at least one of the nucleoside moieties of the oligonucleotide is modified to include an aminooxy moiety.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 9 OF 21 USPATFULL

AN 2001:4883 USPATFULL

TI Aminooxy-modified oligonucleotides and methods for making same

IN Manoharan, Muthiah, Carlsbad, CA, United States

Cook, Phillip Dan, Lake San Marcos, CA, United States

Prakash, Thazha P., Carlsbad, CA, United States

Kawasaki, Andrew M., Oceanside, CA, United States

PA ISIS Pharmaceuticals Inc., Carlsbad, CA, United States (U.S. corporation)

PI US 6172209 B1 20010109

AI US 1998-130973 19980807 (9)

RLI Continuation-in-part of Ser. No. US 1998-16520, filed on 30 Jan 1998

PRAI US 1997-37143P 19970214 (60)

DT Patent

FS Granted

EXNAM Primary Examiner: Geist, Gary; Assistant Examiner: Crane, Larson

LREP Woodcock Washburn Kurtz Mackiewicz & Norris LLP

CLMN Number of Claims: 37

ECL Exemplary Claim: 1

DRWN 29 Drawing Figure(s); 29 Drawing Page(s)

LN.CNT 3602

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Oligonucleotides and other macromolecules are provided which have increased nuclease resistance, substituent groups (such as 2'-aminooxy groups) for increasing binding affinity to complementary strand, and subsequences of 2'-deoxy-erythro-pentofuranosyl nucleotides that activate RNase H. Such oligonucleotides and macromolecules are useful for diagnostics and other research purposes, for modulating the expression of a protein in organisms, and for the diagnosis, detection and treatment of other conditions susceptible to oligonucleotide therapeutics.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 10 OF 21 USPATFULL

AN 2000:146099 USPATFULL

TI DNA sequencing by **mass spectrometry** via exonuclease degradation

IN Koster, Hubert, Concord, MA, United States

PA Sequenom, Inc., San Diego, CA, United States (U.S. corporation)

PI US 6140053 20001031

AI US 1998-160671 19980925 (9)

RLI Continuation of Ser. No. US 1996-744590, filed on 6 Nov 1996 which is a continuation-in-part of Ser. No. US 1995-388171, filed on 10 Feb 1995, now patented, Pat. No. US 5622824 which is a continuation of Ser. No. US 1993-34738, filed on 19 Mar 1993, now abandoned

DT Utility

FS Granted

EXNAM Primary Examiner: Marschel, Ardin H.

LREP Seidman, Stephanie L.Heller Ehrman White & McAuliffe

CLMN Number of Claims: 44

ECL Exemplary Claim: 1

DRWN 34 Drawing Figure(s); 29 Drawing Page(s)

LN.CNT 2292

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides fast and highly accurate **mass spectrometer** based processes for directly sequencing a target nucleic acid (or fragments generated from the target nucleic acid), which by means of protection, specificity of enzymatic activity, or immobilization, are unilaterally degraded in a stepwise manner via exonuclease digestion and the nucleotides, derivatives or truncated sequences detected by **mass spectrometry**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 11 OF 21 USPATFULL

AN 2000:132005 USPATFULL

TI 2'-O-aminooxy-modified oligonucleotides

IN Cook, Phillip Dan, Escondido, CA, United States

Manoharan, Muthiah, Carlsbad, CA, United States

Kawasaki, Andrew Mamoru, Oceanside, CA, United States

PA ISIS Pharmaceuticals, Inc., Carlsbad, CA, United States (U.S. corporation)

PI US 6127533 20001003

AI US 1998-16520 19980130 (9)

PRAI US 1997-37143P 19970214 (60)

DT Utility

FS Granted

EXNAM Primary Examiner: Crane, L. Eric

LREP Woodcock Washburn Kurtz Mackiewicz & Norris LLP

CLMN Number of Claims: 15

ECL Exemplary Claim: 1

DRWN 29 Drawing Figure(s); 29 Drawing Page(s)

LN.CNT 3559

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Nucleotide compositions containing aminooxy moieties are provided. In accordance with preferred embodiments, oligonucleotides and oligonucleotide analogs are provided which are specifically hybridizable with a selected sequence of RNA or DNA wherein at least one of the nucleoside moieties of the oligonucleotide is modified to include an aminooxy moiety.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 12 OF 21 USPATFULL

AN 2000:74089 USPATFULL

TI DNA sequencing by **mass spectrometry** via exonuclease degradation

IN Koster, Hubert, Concord, MA, United States

PA Sequenom, Inc., San Diego, CA, United States (U.S. corporation)

PI US 6074823 20000613

AI US 1996-744590 19961106 (8)

RLI Continuation-in-part of Ser. No. US 1995-388171, filed on 10 Feb 1995, now patented, Pat. No. US 5622824, issued on 22 Apr 1997 which is a continuation of Ser. No. US 1993-34738, filed on 19 Mar 1993, now abandoned

DT Utility

FS Granted

EXNAM Primary Examiner: LeGuyader, John L.; Assistant Examiner: Larson, Thomas G.

LREP Seidman, Stephanie L.Heller Ehrman White & McAuliffe

CLMN Number of Claims: 23

ECL Exemplary Claim: 1

DRWN 35 Drawing Figure(s); 29 Drawing Page(s)

LN.CNT 1676

CAS INDEXING IS AVAILABLE FOR THIS PATENT.



AB The invention provides fast and highly accurate **mass spectrometer** based processes for directly sequencing a target nucleic acid (or fragments generated from the target nucleic acid), which by means of protection, specificity of enzymatic activity, or immobilization, are unilaterally degraded in a stepwise manner via exonuclease digestion and the nucleotides, derivatives or truncated sequences detected by **mass spectrometry**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 13 OF 21 USPATFULL  
AN 2000:21384 USPATFULL  
TI Methods and compositions for enhancing sensitivity in the analysis of biological-based assays  
IN Ness, Jeffrey Van, Seattle, WA, United States  
Tabone, John C., Bothell, WA, United States  
Howbert, J. Jeffry, Bellevue, WA, United States  
Mulligan, John T., Seattle, WA, United States  
PA Rapigene, Inc., Bothell, WA, United States (U.S. corporation)  
PI US 6027890 20000222  
AI US 1997-898501 19970722 (8)  
RLI Continuation-in-part of Ser. No. US 1997-787521, filed on 22 Jan 1997, now abandoned  
PRAI US 1996-10436P 19960123 (60)  
US 1996-15402P 19960321 (60)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Houtteman, Scott W.  
LREP Seed and Berry LLP  
CLMN Number of Claims: 72  
ECL Exemplary Claim: 1  
DRWN 19 Drawing Figure(s); 19 Drawing Page(s)  
LN.CNT 6333

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods are provided for detecting the binding of a first member to a second member of a ligand pair, comprising the steps of (a) combining a set of first tagged members with a biological sample which may contain one or more second members, under conditions, and for a time sufficient to permit binding of a first member to a second member, wherein said **tag** is correlative with a particular first member and detectable by non-fluorescent spectrometry, or potentiometry, (b) separating bound first and second members from unbound members, (c) cleaving the **tag** from the tagged first member, and (d) detecting the **tag** by non-fluorescent spectrometry, or potentiometry, and therefrom detecting the binding of the first member to the second member.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 14 OF 21 USPATFULL  
AN 2000:10008 USPATFULL  
TI Synthetic Haemophilus influenzae conjugate vaccine  
IN Chong, Pele, Richmond Hill, Canada  
Kandil, Ali, Willowdale, Canada  
Sia, Charles, Thornhill, Canada  
Klein, Michel, Willowdale, Canada  
PA Connaught Laboratories Limited, Willowdale, Canada (non-U.S. corporation)  
PI US 6018019 20000125  
WO 9315205 19930805  
AI US 1994-256839 19941003 (8)  
WO 1993-CA41 19930203  
19941003 PCT 371 date  
19941003 PCT 102(e) date

PRAI GB 1992-2219 19920203  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Stucker, Jeffrey  
LREP Sim & McBurney  
CLMN Number of Claims: 5  
ECL Exemplary Claim: 1  
DRWN 28 Drawing Figure(s); 28 Drawing Page(s)  
LN.CNT 2070

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides immunogenic synthetic peptides which are useful alone or in PRP-conjugates in vaccines against Hemophilus influenza infection. Modifications are possible within the scope of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 15 OF 21 USPATFULL  
AN 1999:132241 USPATFULL  
TI Synthesis of polyribosylribitol phosphate oligosaccharides  
IN Chong, Pele, Richmond Hill, Canada  
Kandil, Ali, Willowdale, Canada  
Sia, Charles, Thornhill, Canada  
Klein, Michel, Willowdale, Canada  
PA Connaught Laboratories Limited, North York, Canada (non-U.S. corporation)  
PI US 5972349 19991026  
AI US 1995-475985 19950607 (8)  
RLI Continuation of Ser. No. US 256839  
PRAI GB 1992-2219 19920302  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Marschel, Ardin H.  
LREP Sim & McBurney  
CLMN Number of Claims: 8  
ECL Exemplary Claim: 1  
DRWN 28 Drawing Figure(s); 28 Drawing Page(s)  
LN.CNT 2097

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Polyribosylribitol phosphate oligosaccharides are produced in a multistep process. The compound of the formula: ##STR1## wherein R.sub.1 is a first protecting group and R.sub.2 is a second protecting group, is coupled to a solid polyethylene glycol monomethyl ether (PEG) support. Following removal of the first protecting group, the resulting compound is coupled with a repeating unit for chain elongation of the formula: ##STR2## The protecting group is removed from the phosphorus atom and the steps of removing the first protecting group, coupling with the repeating unit is repeated until the desired number of repeating units in the oligomer has been terminated. The oligomer then is terminated with a chain terminating molecule of the formula: ##STR3## wherein m is an integer and R.sub.3 is a third protecting group. The resulting PEG-bound protected oligomer is a new product and the oligomer may be cleaved from the support and processed to provide a chemically-reactive functional group for binding the polysaccharide oligomer to a carrier molecule.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 16 OF 21 USPATFULL  
AN 1999:21984 USPATFULL  
TI DNA sequencing by mass spectrometry via exonuclease degradation  
IN Koster, Hubert, Concord, MA, United States  
PA Sequenom, Inc., San Diego, CA, United States (U.S. corporation)

PI US 5872003 19990216  
AI US 1995-453499 19950530 (8)  
RLI Division of Ser. No. US 1995-388171, filed on 10 Feb 1995, now patented,  
Pat. No. US 5622824 which is a continuation of Ser. No. US 1993-34738,  
filed on 19 Mar 1993, now abandoned  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Redding, David A.  
LREP Foley, Hoag & Eliot LLP, Arnold, Esq., Beth E.  
CLMN Number of Claims: 21  
ECL Exemplary Claim: 1  
DRWN 15 Drawing Figure(s); 14 Drawing Page(s)  
LN.CNT 1652  
AB Methods for determining the sequence of nucleic acids by cleaving the  
nucleic acid unilaterally from a first end with an exonuclease activity  
to sequentially release individual nucleotides, identifying each of the  
sequentially release nucleotides by **mass spectrometry**  
, and determining the sequence of the nucleic acid from the identified  
nucleotides are disclosed. The method is amenable to multiplexing for  
simulataneously determining more than one nuleic acid sequence.

L9 ANSWER 17 OF 21 USPATFULL  
AN 1998:159699 USPATFULL  
TI DNA sequencing by **mass spectrometry** via exonuclease  
degradation  
IN Koster, Hubert, Concord, MA, United States  
PA Sequenon, Inc., San Diego, CA, United States (U.S. corporation)  
PI US 5851765 19981222  
AI US 1995-454527 19950530 (8)  
RLI Division of Ser. No. US 1995-388171, filed on 10 Feb 1995, now patented,  
Pat. No. US 5622824 which is a continuation of Ser. No. US 1993-34738,  
filed on 19 Mar 1993, now abandoned  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Horlick, Kenneth R.; Assistant Examiner: Tung, Joyce  
LREP Arnold, Beth E.Foley, Hoag&Eliot LLP  
CLMN Number of Claims: 28  
ECL Exemplary Claim: 1  
DRWN 15 Drawing Figure(s); 14 Drawing Page(s)  
LN.CNT 1765

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods for determining the sequence of nucleic acids by cleaving the  
nucleic acid unilaterally from a first end with an exonuclease activity  
to sequentially release individual nucleotides, identifying each of the  
sequentially release nucleotides by **mass spectrometry**  
, and determining the sequence of the nucleic acid from the identified  
nucleotides are disclosed. The method is amenable to multiplexing for  
simulataneously determining more than one nuleic acid sequence.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 18 OF 21 USPATFULL  
AN 1998:134811 USPATFULL  
TI Oligonucleotide sizing using cleavable primers  
IN Monforte, Joseph Albert, Berkeley, CA, United States  
Becker, Christopher Hank, Menlo Park, CA, United States  
Shaler, Thomas Andrew, San Francisco, CA, United States  
Pollart, Daniel Joseph, Menlo Park, CA, United States  
PA SRI International, Menlo Park, CA, United States (U.S. corporation)  
PI US 5830655 19981103  
AI US 1996-639363 19960426 (8)  
RLI Continuation-in-part of Ser. No. US 1995-445751, filed on 22 May 1995  
DT Utility

FS        Granted  
EXNAM    Primary Examiner: Horlick, Kenneth R.; Assistant Examiner: Tung, Joyce  
LREP    Evans, Susan T., Fabian, Gary R.  
CLMN    Number of Claims: 18  
ECL    Exemplary Claim: 1  
DRWN    59 Drawing Figure(s); 24 Drawing Page(s)  
LN.CNT 3411  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB        The present invention provides modified oligonucleotide primers designed to incorporate a cleavable moiety so that a 3' portion of the primer (linked to an extension product) can be released from an upstream 5' portion of the primer. Upon selective cleavage of the cleavable site, primer extension products that contain about five or fewer base pairs of the primer sequence are released, to provide more useful sizing and sequence information per fragment than extension products containing the entire primer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9        ANSWER 19 OF 21    USPATFULL  
AN        97:120460    USPATFULL  
TI        Oligonucleotide sizing using immobilized cleavable primers  
IN        Monforte, Joseph Albert, Berkeley, CA, United States  
          Becker, Christopher Hank, Menlo Park, CA, United States  
          Shaler, Thomas Andrew, San Francisco, CA, United States  
          Pollart, Daniel Joseph, Menlo Park, CA, United States  
PA        SRI International, Menlo Park, CA, United States (U.S. corporation)  
PI        US 5700642                      19971223  
AI        US 1995-445751                19950522 (8)  
DT        Utility  
FS        Granted  
EXNAM    Primary Examiner: Campbell, Eggerton A.  
LREP    Evans, Susan T., Fabian, Gary R.  
CLMN    Number of Claims: 19  
ECL    Exemplary Claim: 1  
DRWN    48 Drawing Figure(s); 14 Drawing Page(s)  
LN.CNT 2332  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB        The present invention provides modified oligonucleotide primers that (i) are designed for attachment to a solid support in a manner that does not block the ability to extend the primer from its 3' end, and (ii) incorporate a cleavable moiety so that a 3' portion of the primer (linked to an extension product) can be released from an immobilized 5' portion. Upon selective cleavage of the cleavable site, a large portion of the primer fragment remains affixed to the solid support. This enables the release of primer extension products that contain about five or fewer base pairs of the primer sequence, to provide more useful sizing and sequence information per fragment than extension products containing the entire primer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9        ANSWER 20 OF 21    USPATFULL  
AN        97:96561    USPATFULL  
TI        Synthetic Haemophilus influenzae conjugate vaccine  
IN        Chong, Pele, Richmond Hill, Canada  
          Kandil, Ali, Willowdale, Canada  
          Sia, Charles, Thornhill, Canada  
          Klein, Michel, Willowdale, Canada  
PA        Connaught Laboratories Limited, Willowdale, Canada (non-U.S. corporation)  
PI        US 5679352                      19971021  
AI        US 1995-475989                19950607 (8)  
RLI      Continuation of Ser. No. US 1994-256839, filed on 3 Oct 1994

PRAI GB 1992-2219 19920302  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Fleisher, Mindy; Assistant Examiner: Degen, Nancy J.  
LREP Sim & McBurney  
CLMN Number of Claims: 11  
ECL Exemplary Claim: 1  
DRWN 28 Drawing Figure(s); 28 Drawing Page(s)  
LN.CNT 1882

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Synthetic peptides have an amino acid sequence corresponding to at least one antigenic determinant of at least one protein, usually a structural protein, particularly the P1, P2 and P6 protein, of Haemophilus influenzae (Hi), particularly type b, and are used as is, in chimeric T-B form, in lipidated form, linked to a carrier molecule, particularly a synthetic PRP molecule and/or polymerized to form molecular aggregates, in vaccines against Hi.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 21 OF 21 USPATFULL  
AN 97:33619 USPATFULL  
TI DNA sequencing by **mass spectrometry** via exonuclease degradation  
IN K oster, Hubert, Concord, MA, United States  
PA Sequenom, Inc., Boston, MA, United States (U.S. corporation)  
PI US 5622824 19970422  
AI US 1995-388171 19950210 (8)  
RLI Continuation of Ser. No. US 1993-34738, filed on 19 Mar 1993, now abandoned  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Fleisher, Mindy; Assistant Examiner: Wai, Thanda  
LREP Lahive & Cockfield, Arnold, Esq., Beth E., DeConti, Jr., Giulio A.  
CLMN Number of Claims: 28  
ECL Exemplary Claim: 1  
DRWN 15 Drawing Figure(s); 14 Drawing Page(s)  
LN.CNT 1719

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods for determining the sequence of nucleic acids by cleaving the nucleic acid unilaterally from a first end with an exonuclease activity to sequentially release individual nucleotides, identifying each of the sequentially release nucleotides by **mass spectrometry**, and determining the sequence of the nucleic acid from the identified nucleotides are disclosed. The method is amenable to multiplexing for simultaneously determining more than one nucleic acid sequence.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.